

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 April 2004 (22.04.2004)

PCT

(10) International Publication Number
WO 2004/033967 A1

(51) International Patent Classification⁷: F24C 3/12

(21) International Application Number:
PCT/KR2003/001934

(22) International Filing Date:
19 September 2003 (19.09.2003)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2002-0062049 11 October 2002 (11.10.2002) KR

(71) Applicant and

(72) Inventor: PARK, Jin-Ha [KR/KR]; 101-1002 Kangbyun
Apartment, 1-2 Mannyun-dong, Seo-ku, 302-150 Taejeon
(KR).

(74) Agent: PARK, Young-II; HYUNDAI Life Insurance
BLDG., 5F., 649-14 Yoksam-dong, Gangnam-gu, 135-080
Seoul (KR).

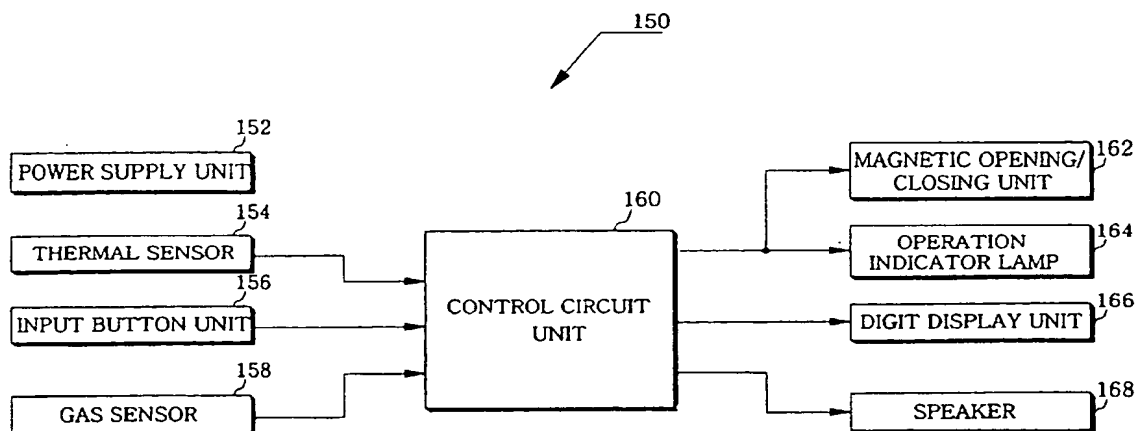
(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: OVERHEAT PREVENTION APPARATUS AND GAS RANGE HAVING THE OVERHEAT PREVENTION APPA-
RATUS



(57) Abstract: An overheat prevention apparatus, in which if the user forgets to turn off a gas range, fire of a burner is automatically extinguished after an operating time set by a user in advance lapses, thereby preventing accidents from occurring. The overheat prevention apparatus includes a thermocouple, which is installed at the burner of the gas range; a magnetic opening/closing unit, which generates a magnetic force due to the thermoelectromotive force of the thermocouple so as to selectively open or close a gas supply passage; and a timer switch, which is installed between an output terminal of the thermocouple and an input terminal of the magnetic opening/closing unit, electrically disconnects circuits the two terminals in an "OFF" status and an end-of-set status, and electrically connects the two terminals while a time setup is maintained.

WO 2004/033967 A1